Author Index

Canadian Journal of Plant Science, Volume 74, 1994

Aflakpui, G. K. S., 255 Aguilera, A., 471, 479 Allard, G., 97 Allen, C. L., 521 Altinok, S., 563 Anderson, G. W., 255 Andrews, D., 759, 861 Asiedu, S. K., 360, 361, 362, 364 Atlin, G., 501, 556, 557 Auger, M., 615 Austenson, H. M., 63

Bailey, L. D., 1, 303, 549, 555 Baillie, J., 557 Bardak, R. R., 559 Baril, C. P., 311 Barl, B., 861 Barnes, D. K., 125 Baron, V. S., 7 Bartos, P., 733 Bélanger, G., 556, 557, 825 Belyk, M., 797 Belzile, L., 807 Berrouard, S., 167 Beversdorf, W. D., 137, 139, 141, 143 Biernacki, M., 883 Billett, D., 404 Bishop, G. A., 362 Bittman, S., 109, 723 Blackshaw, R. E., 177, 185, 261, 319, 635, 745 Blatt, R., 817 Blom, T. J., 151 Boiteau, G., 406 Bolton, E., 558 Bonner, D. M., 121, 331

Bolton, E., 558
Bonner, D. M., 121, 331
Borstlap, S., 411
Bosveld, P., 361
Bowen, P. A., 607
Bowers, W. W., 403
Bowes, G. G., 383
Bowley, S. R., 339, 558
Bowness, J., 557
Brabant, P., 311
Brandt, R. N., 169
Briggs, K. G., 25
Brookes, B., 779
Brookes, V. R., 407
Brûlé-Babel, A. L., 681
Bubar, J. S., 817
Bullock, P. R., 429

Burns, N., 559 Bush, R. S., 93 Buszard, D., 359, 364, 365, 859 Butt, E., 558 Buttery, B. R., 287

Calderon, J., 861 Caldwell, C. D., 405 Carmichael, C. A., 545 Carron, M. P., 623 Catling, P. M., 883 Cattani, D. J., 507 Cavers, P. B., 863 Cessna, A. J., 199, 221, 653 Chang, C., 327 Charest, C., 687 Cheung, C. H., 357 Chipman, T., 409 Chong, C., 360, 362, 366, 860 Choo, T. M., 149, 737, 817, 825 Choudhary, M., 303, 549 Christie, B. R., 149, 556, 560, 563, 825 Chu, C. L., 363 Clarke, J. M., 811, 821 Clarke, P. J., 133, 135 Clay, S. A., 647 Clements, D. R., 255 Cline, R. A., 360 Clough, C., 559 Collin, J., 663 Comeau, A., 631 Cordeiro, H. M., 51 Côté, J., 615 Cotton, M. M., 404 Coulman, B. E., 561 Court, W. A., 129 Crosby, W. L., 745 Cross, H. Z., 455 Cummings, P. M., 559

Damman, H., 779
Dangi, O. P., 759
Darwent, A. L., 221, 653, 867
Daun, J. K., 369
de Gooijer, H., 404
de St. Remy, E. A., 7
DeClercq, D. R., 369
Denis, J.-B., 311
DePauw, R. M., 133, 135, 811, 821
Derksen, D. A., 193
Desjardins, Y., 827
Dexter, J. E., 51, 71
Dick, A. C., 7

Dixon, P. L., 405, 407
Donnelly, D., 409
Doohan, D. J., 405, 406
Douglas, D. W., 383
Downey, R. K., 441, 793
Drapeau, R., 615
Duczek, L. J., 205
Duffy, T., 407
Duguid, S. D., 681
Dunbar, C., 361
Dwyer, L. M., 31, 37
Dyck, P. L., 231, 671, 733

Eaton, L. J., 341, 364 Enjalric, F., 623 Entz, M. H., 411, 507, 521 Entz, T., 261, 319, 327 Estabrooks, E. N., 364

Fairey, D. T., 779
Fairey, N. A., 115
Falk, K. C., 441
Ferguson, T., 737
Fernandez, M. R., 821
Fillmore, S. A. E., 556, 560
Fortin, C. N., 363
Fortin, J., 365
Fortin, M., 615
Fowler, D. B., 59
Fredeen, A., 557
Freyman, S., 407
Fuller, L. G., 713
Futatsuya, F., 561

Gagnon, B., 167 Gagnon, S., 366 Gastal, F., 556 Gaudiel, R., 261 Gauthier, L., 366 Getinet, A., 793 Ghulam, W., 631 Gill, O., 360 Gillespie, T. J., 485 Girardin, Ph., 471 Glick, H., 405 Goplen, B. P., 145 Gordon, R., 405 Gosselin, A., 366 Gossen, B. D., 145 Gostovic, P., 137, 139, 141, 143 Granger, R. L., 363 Grant, C. A., 1, 545, 549, 555 Grant, C. A., 1 Groleau, Y., 363

Page numbers in **boldface** refer to abstracts.

Author Index

Canadian Journal of Plant Science, Volume 74, 1994

Aflakpui, G. K. S., 255 Aguilera, A., 471, 479 Allard, G., 97 Allen, C. L., 521 Altinok, S., 563 Anderson, G. W., 255 Andrews, D., 759, 861 Asiedu, S. K., 360, 361, 362, 364 Atlin, G., 501, 556, 557 Auger, M., 615 Austenson, H. M., 63

Bailey, L. D., 1, 303, 549, 555 Baillie, J., 557 Bardak, R. R., 559 Baril, C. P., 311 Barl, B., 861 Barnes, D. K., 125 Baron, V. S., 7 Bartos, P., 733 Bélanger, G., 556, 557, 825 Belyk, M., 797 Belzile, L., 807 Berrouard, S., 167 Beversdorf, W. D., 137, 139, 141, 143 Biernacki, M., 883 Billett, D., 404 Bishop, G. A., 362 Bittman, S., 109, 723 Blackshaw, R. E., 177, 185, 261, 319, 635, 745 Blatt, R., 817 Blom, T. J., 151 Boiteau, G., 406 Bolton, E., 558 Bonner, D. M., 121, 331

Bolton, E., 558
Bonner, D. M., 121, 331
Borstlap, S., 411
Bosveld, P., 361
Bowen, P. A., 607
Bowers, W. W., 403
Bowes, G. G., 383
Bowley, S. R., 339, 558
Bowness, J., 557
Brabant, P., 311
Brandt, R. N., 169
Briggs, K. G., 25
Brookes, B., 779
Brookes, V. R., 407
Brûlé-Babel, A. L., 681
Bubar, J. S., 817
Bullock, P. R., 429

Burns, N., 559 Bush, R. S., 93 Buszard, D., 359, 364, 365, 859 Butt, E., 558 Buttery, B. R., 287

Calderon, J., 861 Caldwell, C. D., 405 Carmichael, C. A., 545 Carron, M. P., 623 Catling, P. M., 883 Cattani, D. J., 507 Cavers, P. B., 863 Cessna, A. J., 199, 221, 653 Chang, C., 327 Charest, C., 687 Cheung, C. H., 357 Chipman, T., 409 Chong, C., 360, 362, 366, 860 Choo, T. M., 149, 737, 817, 825 Choudhary, M., 303, 549 Christie, B. R., 149, 556, 560, 563, 825 Chu, C. L., 363 Clarke, J. M., 811, 821 Clarke, P. J., 133, 135 Clay, S. A., 647 Clements, D. R., 255 Cline, R. A., 360 Clough, C., 559 Collin, J., 663 Comeau, A., 631 Cordeiro, H. M., 51 Côté, J., 615 Cotton, M. M., 404 Coulman, B. E., 561 Court, W. A., 129 Crosby, W. L., 745 Cross, H. Z., 455 Cummings, P. M., 559

Damman, H., 779
Dangi, O. P., 759
Darwent, A. L., 221, 653, 867
Daun, J. K., 369
de Gooijer, H., 404
de St. Remy, E. A., 7
DeClercq, D. R., 369
Denis, J.-B., 311
DePauw, R. M., 133, 135, 811, 821
Derksen, D. A., 193
Desjardins, Y., 827
Dexter, J. E., 51, 71
Dick, A. C., 7

Dixon, P. L., 405, 407
Donnelly, D., 409
Doohan, D. J., 405, 406
Douglas, D. W., 383
Downey, R. K., 441, 793
Drapeau, R., 615
Duczek, L. J., 205
Duffy, T., 407
Duguid, S. D., 681
Dunbar, C., 361
Dwyer, L. M., 31, 37
Dyck, P. L., 231, 671, 733

Eaton, L. J., 341, 364 Enjalric, F., 623 Entz, M. H., 411, 507, 521 Entz, T., 261, 319, 327 Estabrooks, E. N., 364

Fairey, D. T., 779
Fairey, N. A., 115
Falk, K. C., 441
Ferguson, T., 737
Fernandez, M. R., 821
Fillmore, S. A. E., 556, 560
Fortin, C. N., 363
Fortin, J., 365
Fortin, M., 615
Fowler, D. B., 59
Fredeen, A., 557
Freyman, S., 407
Fuller, L. G., 713
Futatsuya, F., 561

Gagnon, B., 167 Gagnon, S., 366 Gastal, F., 556 Gaudiel, R., 261 Gauthier, L., 366 Getinet, A., 793 Ghulam, W., 631 Gill, O., 360 Gillespie, T. J., 485 Girardin, Ph., 471 Glick, H., 405 Goplen, B. P., 145 Gordon, R., 405 Gosselin, A., 366 Gossen, B. D., 145 Gostovic, P., 137, 139, 141, 143 Granger, R. L., 363 Grant, C. A., 1, 545, 549, 555 Grant, C. A., 1 Groleau, Y., 363

Page numbers in **boldface** refer to abstracts.

Gubbels, G. H., 121, 331 Guillemette, L., 615 Gupta, U. C., 563 Gusta, L. V., 63, 247

Hale, B. A., 267 Haliburton, T. H., 361 Hall, J. W., 841, 860 Hall, M. R., 255 Hamilton, R. I., 687, 759 Hancock, D., 339 Hancock, J., 409 Harker, K. N., 221, 653 Harrison, T., 531 Harvey, M., 359 Havard, K. A., 359, 360 Hdider, C., 827 Helms, T. C., 15, 699 Hendel, J. G., 129 Hendrickson, P. A., 364 Hermanutz, L. A., 395 Hickey, S., 407 Hill, S., 359, 406 Ho, K. M., 737, 817 Hodges, D. M., 687 Hogue, E. J., 347 Hokanson, K., 409 Holm, F. A., 199, 404 Holt, N. W., 103 Hou, J. Q., 19 Hume, D. J., 137, 139, 141, 143, 267

Irvine, R. B., 785 Ishii, R., 561, 562 Ivany, J. A., 403, 405

Janzen, H. H., 327 Jedel, P. E., 447, 515, 753 Jeffers, G. M., 693 Jefferson, P. G, 465, 785 Jensen, K. I. N., 403, 406 Johnson, B. L., 763 Johnson, J. J., 759 Jones-Flory, L. L., 205 Jordan, W. C., 364 Ju, H.-Y., 364, 365 Juan. N. A., 125 Jui, P. Y., 235, 737

Kaiser, B. N., 853 Kakuda, Y., 581 Kalt, W., 861 Kanashiro, D., 745 Kayler, W. E., 359, 360, 361 Kenaschuk, E. O., 121, 331, 815 Kephart, K. D., 647 Kevan, P. G., 581 Khanizadeh, S., 353, 363, 364, 365, Kibite, S., 497 Kiehn, F., 261, 319 Kielly, G. A., 785 Kilvanek, S., 825 Kimball, E., 403 Kimmins, J. P., 860 Kimpinski, J., 406 King, J. R., 293, 539, 558, 559, 560, 564 Kirby, P. C., 359 Kirkland, K. J., 221, 562, 653 Knott, D. R., 241 Knox, R. E., 821 Kong, D., 737 Kowalenko, C. G., 565, 833 Kozub, G. C., 177 Kumura, A., 561, 562 Kunelius, H. T., 559 Kunelius, T. P., 559

Lafond, G. P., 63, 703 Lamarre, M., 365 Lamb, R. J., 169 Lambert, M., 561 Lamble, W., 359 Landry, B. S., 353 Lapierre, C., 421 Lapointe, D., 615 Lapointe, G., 97 Lardet, L., 623 Lareau, M., 365 Larney, F. J., 79 Larson, D. J., 404 Lau, O. L., 347, 847 Lawrence, T., 103, 785 Layzell, D. B., 853 LeBlanc, P. V., 563 Lefkovitch, L. P., 115, 221, 653, 779, 867 Légère, A., 421 Legge, W. G., 555 Letchamo, W., 366 Limin, A. E., 59 Lin. C. S., 759 Lindwall, C. W., 79 Liptay, A. M. J., 335 Liptay, A., 335 Loeppky, H. A., 193, 635 Lougheed, E. C., 363 Lovett Doust, J., 883 Luffman, M., 364 Lukow, O. M., 221 Lumis, G. P., 362, 366

MacDonald, L., 365 MacKenzie, A. F., 359 Makkouk, K. M., 631 Mapplebeck, L. R., 363 Martin, D. G., 51

Martin, R. A., 817 Martin, R. C., 563 Martin, R., 558 Maurice, D., 693 May, K. W., 737 May, W. E., 267 McAndrew, D. W., 713 McCaig, T. N., 821 McCartney, D. H., 109, 723 McCullough, D. E., 471, 479 McDonald, J., 861 McElroy, A. R., 553, 558 McKenzie, D., 558 McKenzie, D. B., 556, 560 McKenzie, R. C., 564 McKeown, A. W., 159, 603 McLaren, D., 365 McLeod, J. G., 811, 821 McMullan, P. M., 369, 667 McQueen, R. E., 557, 558 McRae, K. B., 501, 366, 556, 558, 560 McVetty, P. B. E., 437, 557, 729 Meheriuk, M., 847 Mendez, J., 557 Michaels, T. E., 801 Mihajlovic, M., 471 Milburn, P., 362 Miles, N. W., 859 Min, D. H., 560 Minero-Amador, A., 589 Minshull, S. A., 359 Moloney, M. M., 745 Montminy, W., 137, 139, 141, 143 More, A. F., 129 Moroni, J. S., 562 Morrison, R. J., 261, 319 Mostafavi, M. R., 455 Mover, J. R., 177 Mündel, H.-H., 261, 319 Murphy, L. A., 275 Murphy, S. D., 801 Murr, D. P., 363 Murray, C. L., 362, 366

Nadeau, P., 97 Najda, H. G., 564 Nams, V. O., 573 Narasimhalu, P. R., 87, 737, 558, 559 Nassar, N. M. A., 857 Neilsen, G. H., 347 Noll, J. D., 555 Noll, J. S., 545, Nowak, J., 360, 361, 362

O'Connor, B. J., 63, 247 O'Donovan, J. T., 693 Orf, J. H., 15 Owuoche, J. O., 25

Pageau, D., 663 Papadopoulos, Y. A., 556, 557, 558, 560, 563, 825 Parchomchuk, P., 347 Park, S. J., 235, 287, 557 Patterson, D. T., 43 Paul, L. E., 303 Peck, T. R., 303 Penney, B. G., 366 Penney, D. C., 25 Perrin, Y., 623 Peschken, D. P., 383 Piercy, M. D., 404 Pillay, V., 362 Pinnisch, R., 437, 729 Piott, B. D., 151 Plett, S., 543 Pocs, R., 129 Prescott, C. E., 860 Preston, K. R., 71 Privé, J.-P., 363 Proudfoot, K. G., 365, 367

Qi, M. Q., 797 Quamme, H. A., 841, 860 Quiring, D. T., 235

Raddatz, R. L., 429 Rakow, G., 793 Raney, J. P., 793 Rashid, K. Y., 815 Rayment, A. F., 365 Redmann, R. E., 797 Reidy, M. E., 643 Reynolds, L. B., 603 Richards, J. T., 362 Richer-Leclerc, C., 615 Rinker, D. L., 360 Rioux, J. A., 615 Rioux, R., 773 Rodd, A. V., 558 Rodd, V., 817 Romo, J. T., 531, 767 Rono, J. K., 405 Rosa, N., 603 Roth, B. T., 261, 319 Roy, R. C., 129

Salmins, S., 359 Salmon, D. F., 447, 515 Sampson, H. G., 563 Sanderson, J. B., 87, 558 Sanderson, K. R., 859 Sandoval-Avila, D. M., 801 Scarth, R., 275 Schellenberg, M. P., 293, 539 Schmitz, D., 611 Schneiter, A. A., 763 Scott, R. A., 15 Seabrook, J. E. A., 155 Sharma, M. P., 404, 693 Shattuck, V. I., 595 Shaykewich, C. F., 429 Sheaffer, C. C., 125 Shelp, B. J., 853 Shida, A., 561 Shoop, M. C., 215 Simard, R. R., 421 Simpson, G. M., 19 Simpson, S. E., 558 Singh, S. P., 461 Slingerland, K., 859 Small, E., 779 Smallwood, C. L., 361 Smith, D. L., 563 Smith, S. R., Jr., 507 Snyder, M., 409 Spicer, K. W., 883 Spurr, D. T., 383, 441 Stevenson, R. K., 861 Stewart, A. H., 360, 361 Stewart, D. W., 31, 37 Stewart, J., 404, 406, 407 Stewart, K. A., 589 Storgaard, A. K., 507 Stringam, G. R., 562 Swanton, C. J., 255, 485, 643, 801 Sykes, E. E., 231

Tai, H., 93
Tan, C. S., 287
Tanino, K. K., 861
Tanner, J. W., 137, 139, 141, 143
Taylor, G. J., 25
Taylor, J. S., 497
Therrien, M. C., 545, 555, 737
Thiagarajah, M. R., 562
Thomas, A. G., 383
Thomas, J. B., 133, 135, 675
Thomas, W. G., 557, 558
Thumfort, P., 853
Tilley, S., 364

Timmins, P. R., 235
Toivonen, P. M. A., 607
Tollenaar, M., 471, 479
Townley-Smith, L., 221, 387, 653, 867
Townley-Smith, T. F., 811
Tremblay, G., 279
Tremmel, D. C., 43
Twidwell, E. K., 647

Urrea, C. A., 461 Usui, M., 581

Vanden Born, W. H., 404 Vandenberg, A., 319 Vander Kloet, S. P., 409, 577 Vandierendonck, P., 335 Vasseur, C., 279 Vézina, L.-P., 97 Vyn, T. J., 255

Waddington, J., 215, 293, 539 Wagner-Riddle, C., 485 Wall, D. A., 875 Walsh, B., 359 Walton, R., 817 Wang, W., 595 Ward, T., 859 Warman, P. R., 359, 360 Waterer, D., 611 Wauthy, J.-M., 663 Weaver, S. E., 395 Wetter, L. G., 713 White, P. H., 129 Williams, P. C., 51 Willison, J. H. M., 357 Winter, K. A., 559 Wolk, W. D., 347 Wood, D., 339 Wright, A. T., 387

Xiao, X., 357 Xu, H. L., 366, 561, 562

Yamagishi, T., 561, 562

Zabek, L. M., 860 Zebarth, B. J., 607 Zentner, R. P., 465 Zhang, J., 863 Zhang, M. I. N., 357

Subject Index

Canadian Journal of Plant Science, Volume 74, 1994

Aaterra

poinsetta response to nitrate, substrate pH and etridiazole, 151

AC Charlie red clover, 825

Acceptance probability

resource allocation in Maritime cereal cultivar trials, 501

Acid detergent fibre

wapiti triticale for forage, 515

Adaptability

selecting sorghum cultivars for the semi-arid tropics, 759

Adaptation

variation and adaptation of Canadian barleys, 737

Agronomy

safflower seeding rates, 261

Agropyron desertorum (see Wheatgrass)

Aleurone color

grain filling of maize strains selected for kernel weight, 455

Alfalfa

AC Nordica alfalfa, 145 alfalfa root and crown

morphology, 125

alfalfa, wildflowers, and pollinators, 779

crop management for corn following established alfalfa, 255

direct seeding of alfalfa, 773 evaluating alfalfa strains for

pasture, 109 root elongation in alfalfa

seedlings, 215 sold-seeding alfalfa in Saskatchewan, 293, 539

Alkali

effects of alkalines on wild oat seed, 19

Allium ampeloprasum (see Garlic)
Allium sativum (see Garlic)

American wild celery

Vallisneria americana Michx., 883

Aminomethylphosphonic acid glyphosate and AMPA residues in preharvest-treated wheat, 653

Ammonium nitrate

effect of zinc on cadmium concentration in the tissue of durum wheat, 549

Ammonium sulphate

temperature effects on quackgrass control with glyphosate, 667

Aneuploidy

apomixis in cassava, 857

Année du semis

production de semence du trèfle rouge, 807

Antixenosis

tolerance to flea beetles in canola and mustard, 169

Apple

effect of edible coatings on storage quality of apples, 847

response of apple trees to soil acidification, 347

winter freezes of fruit trees, 841

Application timing

quackgrass control with sethoxydim, 647

Aquatic macrophyte

Vallisneria americana Michx., 883

adaptation et croissance d'arbustes ornementaux, 615

Avena fatua (see Oat, wild)

Avena sativa (see Oat)

Azote

effets de régies culturales sur des cultivars de blé, 279

Backcross

soybean backcross and bi-parental populations, 15

Baking quality

bromate response of flour streams, 71

Barley

AC Sterling barley, 817 barley resistance to ergot, 663

crop yields from phenology and

water use, 429 K, Cl, and tillage effects on barley, 1

malting quality characteristics of barley, 545

variation and adaptation of Canadian barleys, 737

Barley yellow dwarf luteovirus

barley yellow dwarf virus resistance in Aegilops, 631

BAY SMY 1500

downy brome control in wheat and rye, 185

downy brome herbicide efficacy and soil properties, 177

Bean (common)

comparison of selection methods in common bean, 461

inheritance of bean trichomes, 235 soil compaction effects on nodulation, 287

tillage and planting pattern in white bean cultivars, 801

Bean (mung)

doubly attached trichomes on stamens, 335

Bean (white)

tillage and planting pattern in white bean cultivars, 801

Bentazon

seedling emergence after maternal bentazon application, 863

Bi-parental

soybean backcross and bi-parental populations, 15

Biomass sèche

effets de régies culturales sur des cultivars de blé, 279

Biotypes

response of quackgrass biotypes to desiccation, 643

Blé de printemps

effets de régies culturales sur des cultivars de blé, 279

Blueberry (lowbush)

Blueberries all fired-up, 577 long-term herbicide and fertilizer on

blueberry, 341

northern Ontario wild fruits, composition and energy values, 581 sampling efficiency of blueberries, 573

Brassica

packchoy and glucosinolates, 595

Brassica campestris (see Rape (summer turnip))

Brassica carinata (see Mustard) Brassica napus L. (see Canola)

Brassica rapa L. (see Rape (summer turnip))

Bread

bromate response of flour streams, 71

Breeding

evaluation of cultural practices for fall-planted garlic, 353 test weight in wheat, 675

Bromate response of flour streams,

Bromegrass

persistence of grasses under grazing, 723

Bromegrass-alfalfa stand arrangements for herbage, 115

Bromus tectorum L.

downy brome control in wheat and rye, 185

downy brome herbicide efficacy and soil properties, 177

Bulk density

test weight in wheat, 675

Burning

residue management effects on timothy, 507

Bushel weight

test weight in wheat, 675

Cadmium

effect of zinc on cadmium concentration on the tissues of durum wheat, 549

Calcium

dry matter and macroelements in red raspberry plantings, 565 macroelements in Willamette raspberry plant parts, 833 manure application effects on

barley nutrient uptake Canola

canola growth in response to soil salinity, 797

comparison of *nap* and *pol* cytoplasm effects, 729

effect of wounding and jasmonates on canola seedlings, 899

free fatty acids in canola, 267 growth of acetolactate synthase

resistant canola, 745 tolerance to flea beetles in canola

and mustard, 169 vernalization response in spring

canola, 275 zero-tillage forage establishment, 521

Canopy development crop response to zero-tillage, 411

Carbon dioxide by temperature interaction CO₂ temperature effects on development, 43

Carthamus (see Safflower)

Cell size

guard cell length and cold hardiness in wheat, 59

Cereal mixtures

wapiti triticale for forage, 515 Chilling tolerance and sensitivity maize chilling resistance test, 687

Chisel plough

tillage and planting pattern in white bean cultivars, 801 Chloride

K, Cl, and tillage effects on barley, 1

Chlorophyll content

N supply on development and dry matter of maize hybrids, 471

Chlorophyll fluorescence

N supply on development and dry matter of maize hybrids, 471

Chlorsulfuron

chlorsulfuron-resistant chickweed, 693

Cinmethylin

downy brome control in wheat and rye, 185

downy brome herbicide efficacy and soil properties, 177

Climate

nitrogen effects on broccoli, 607

Clopyralid

mustard tolerance to clopyralid, 635

Clove size

evaluation of cultural practices for fall-planted garlic, 353

Clover (red)

AC Charlie red clover, 825 AC Kingston red clover, 149 silage quality of seeding year red clover, 87

Cluster analysis

choice of environments based on GE interaction, 311

Cocklebur

seedling emergence after maternal bentazon application, 863

Cold hardiness

guard cell length and cold hardiness in wheat, 59

Common root rot

K, Cl, and tillage effects on barley, 1

Competition

alfalfa, wildflowers, and pollinators, 779

quackgrass control with sethoxydim, 647

sainfoin-alfalfa mixtures, 785

Composition

northern Ontario wild fruits, composition and energy values, 581

Conglutin

anti-lupin antibodies, 93

Conservation tillage

barley and weed response to lime, P and tillage, 421

crop rotation for quackgrass suppression, 193

winter wheat under cropping systems in southern Alberta, 79

Cookie making-quality soft wheat milling, 51

Copper

response of apple trees, 347 wheat cultivar response to copper, 25

Copper use efficiency

wheat cultivar response to copper, 25

Corn

grain filling of maize strains selected for kernel weight, 455 N supply on development and dry

matter of maize hybrids, 471
N-use efficiency of maize hybrids,

N-use efficiency of maize hybrid 479

postemergence control of quackgrass, 375

Correlation

grain filling of maize strains selected for kernel weight, 455

Cover crop

rye cover crop management impact on soybean growth, 485

Cover estimates sampling efficiency of blueberries, 573

Crested wheatgrass sod-seeding alfalfa in Saskatchewan, 293

Croissance

adaptation et croissance d'arbustes ornementaux, 615

Crop injury

response of sunflower plants to physical injury, 763

Crop quality

crop response to zero-tillage, 411

Crop rotation

crop rotation for quackgrass suppression, 193

winter wheat under cropping systems in southern Alberta, 79

Crop tolerance

Mustard tolerance to clopyralid, 635

Crop water demand

crop yields from phenology and water use, 429

Crop water use

crop yields from phenology and water use, 429

Crucifer flea beetles

tolerance to flea beetles in canola and mustard, 169

Cultivar

evaluation of chitting, 159

production de semence du trèfle rouge, 807

variation and adaptation of Canadian barleys, 737

wheat cultivar response to copper, 25

Cultivar description

AC Charlie red clover, 825 AC Copia spring triticale, 811

AC Eatonia hard red spring wheat, 821

AC Kingston red clover, 149

AC McDuff flax, 815 AC Nordica alfalfa, 145

AC Splendor orchardgrass, 553 AC Sterling barley, 817

Bluesky red spring wheat, 135 Jay orchardgrass, 339

OAC Eclispse soybean, 141 OAC Frontier soybean, 143

OAC Shire soybean, 139 OAC Talbot soybean, 137

Wildcat red spring wheat, 133

Cvanazine wild mustard in canola, 369

Cytoplasm cost comparison of nap and pol cytoplasm effects, 729

Cytoplasmic male sterility comparison of nap and pol cytoplasm effects, 729

residues of 2.4-D in wheat, 199 Dactylis glomerata L. (see

Orchardgrass)

Daylength Canada thistle control in summerfallow, 867

Desiccant

desiccants to reduce frost damage in flax, 121

Desiccation

preharvest applications of glyphosate on wheat, 221 response of quackgrass biotypes to desiccation, 643

Diclofop

downy brome control in wheat and rye, 185

Dicoccoides

transfer of leaf rust resistance to hexaploid wheat, 671

Digestibility

silage quality of seeding year red clover, 87

Direct seeding

oat companion for irrigated alfalfa establishment, 465

zero-tillage forage establishment. 521

Disease resistance

AC Eatonia hard red spring wheat, 821

Distance between rows

evaluation of cultural practices for fall-planted garlic, 353

Distribution

Vallisneria americana Michx., 883

Dommages

adaptation et croissance d'arbustes ornementaux, 615

Dormancy

effects of alkalies on wild oat seed, 19

DPX-79406

postemergence control of quackgrass, 375

Drought

winter wheat under cropping systems in southern Alberta, 79

Dry matter accumulation

N-use efficiency of maize hybrids,

Duration

rate and duration of grain filling in spring wheat, 681

Early-generation yield bulk F2 and F3 yield tests in

durum wheat, 241 Eastern black nightshade metribuzin tolerance in Solanum

ptycanthum, 395 **Edaphic factors**

downy brome herbicide efficacy and soil properties, 177

El Nino/Southern Oscillation winter freezes of fruit trees, 841

ELISA

barley yellow dwarf virus resistance in Aegilops, 631 nitrate reductase in timothy, 97

Elymus dahuricus (see Ryegrass, Dahurian, wild)

Elymus trachycaulus (see Wheatgrass, slender)

Elytrigia repens

crop rotation for quackgrass suppression, 193

postemergence control of quackgrass, 375

response of quackgrass biotypes to desiccation, 643

Emergence

canola growth in response to soil salinity, 797 evaluation of chitting, 159

flax germination and emergence, 247

Energy values

northern Ontario wild fruits. composition and energy values.

Ergot

barley resistance to ergot, 663

Erucic acid content

wild mustard in canola, 369

Establishment

oat companion for irrigated alfalfa establishment, 465

Ethametsulfuron

mustard tolerance to clopyralid, 635 wild mustard in canola, 369

5-ethoxy-3-trichloromethyl-1,2,4thiadiazole

poinsettia response to nitrate, substrate pH and etridiazole, 151

Etiolated growth

regrowth of smooth bromegrass,

Evapotranspiration efficiency

crop response to zero-tillage, 411 Evening primrose

responses of evening primrose to transplanting date, 129

Experimental milling soft wheat milling, 51

F2-derived family comparison of selection methods in common bean, 461

Facilitation

alfalfa, wildflowers, and pollinators, 779 Fall dormancy

alfalfa root and crown

morphology, 125

date and rate of seeding of winter cereals, 447

Feed quality

AC Sterling barley, 817

Feedlot manure

manure application effects on barley nutrient uptake, 327

Fertilizer

long term herbicide and fertilizer on blueberry, 341

Fertilizer management

malting quality characteristics of barley, 545

Field pea

seed rates, field pea and weeds, zero-tillage forage establishment,

Firmness

effect of edible coatings on storage quality of apples, 847

Flax

AC McDuff flax, 815

desiccants to reduce frost damage in flax, 121

effect of dinitroanalines on flax and lentil, 875

flax germination and emergence, 247 frost damage and flax quality, 331 swathing time for flax, 323

Flea beetle

tolerance of flea beetles to canola and mustard, 169

Forage

residue management effects on timothy, 507

Forage production

regrowth of smooth bromegrass, 531

Forage yield oat companion for irrigated alfalfa establishment, 465

planting date effects on spring and winter cereal forage yield, 7

quackgrass control with sethoxydim, 647

Free fatty acids

free fatty acids in canola, 267

Freeze-thaw injury

Freeze-thaw injury is enhanced by post-thaw leaching in water, 357

Freezing injury winter freezes of fruit trees, 841

Freezing tolerance

freezing tolerance of winter wheat, 63 Frost

temperature effects on quackgrass control with glyphosate, 667

Frost damage

desiccants to reduce frost damage in flax, 121

frost damage and flax quality, 331 Fruit buds

long term herbicide and fertilizer on blueberry, 341

Fruit calcium

response of apple trees, 347

Fruit (wild)

northern Ontario wild fruits, composition and energy values, 581

Fruit yield

tomato seedling establishment and growth, 589

Fungicide

freezing tolerance of winter wheat, 63 reduced tillage in Alberta, 713 Gamma-linolenic acid

responses of evening primrose to transplanting date, 129

Garlic

evaluation of cultural practices for fall-planted garlic, 353 garlic in Saskatchewan, 611 garlic propagation and bulbing in

vitro, 155 Genetic gain

soybean backcross and bi-parental populations, 15

Genetic variability

metribuzin tolerance in Solanum ptycanthum, 395

Genetics

inheritance and linkage relationships in oat, 497

Genotype evaluation

evaluation of cultural practices for fall-planted garlic, 353

Genotype × environment interaction choice of environments based on GE interaction, 311

resource allocation in Maritime cereal cultivar trials, 501

selecting sorghum cultivars for the semi-arid tropics, 759

Genotypic responses

garlic propagation and bulbing in vitro, 155

Germination

desiccants to reduce frost damage in flax, 121

flax germination and emergence, 247

frost damage and flax quality, 331 tomato seedlings establishment and growth, 589

Germination test

maize chilling resistance test, 687 Giantism

inheritance and linkage relationships in oat, 497

Glucosinolate

packchoy and glucosinolates, 595 Glucosinolate content

wild mustard in canola, 369

Glycine max (see Soybean)

Glyphosate

glyphosate and AMPA residues in preharvest-treated wheat, 653 preharvest applications of

glyphosate on wheat, 221

temperature effects on quackgrass control with glyphosate, 667 Grain filling

rate and duration of grain filling in spring wheat, 681 Grain moisture

kernel breakage vs. moisture, 543

Grain yield

crop response to zero-tillage, 411

Grass (temperate)

persistence of grasses under grazing, 723

Grass-legume mixtures

stand arrangements for herbage, 115

Grazing

pasture production of Russian wild ryegrass, 103

Grazing management

regrowth of smooth bromegrass, 531

wolf plants in crested wheatgrass, 767

Grazing tolerance

evaluating alfalfa strains for pasture, 109

persistence of grasses under grazing, 723

Greenhouse

greenhouse pod dehiscence in soybean, 699

Ground cover

persistence of grasses under grazing, 723

Growth habit

seed rates, field pea and weeds, 387

Growth stage

Mustard tolerance to clopyralid, 635

Guard-cell length

guard cell length and cold hardiness in wheat, 59

Habitat

scentless chamomile habitats, 383

Haies

adaptation et croissance d'arbustes ornementaux, 615

Hail

response of sunflower plants to physical injury, 763

Harvest index

residue management effects on timothy, 507

Haun stage

zero-tillage forage establishment, 521

HCN92 canola

canola growth in response to soil salinity, 797

Helanthius annuus L. (see Sunflower)

Herbage production stand arrangements for herbage, 115

Herbicide

long-term herbicide and fertilizer on blueberry, 341 seedling emergence after maternal

bentazon application, 863

Herbicide resistance

chlorsulfuron-resistant chickweed, 693 growth of acetolactate synthase resistant canola, 745

Heterosis

inter-cultivar hybrids of summer turnip rape, 441

Hevea brasiliensis

rajeunissement de l'hévéa par microgreffage, 623

Hivernaux

adaptation et croissance d'arbustes ornementaux, 615

Hordeum vulgare L. (see Barley) Hullessness

inheritance and linkage relationships in oat, 497

Hybrid seed production hybridity effects in CMS hybrid canola varieties, 437

Hydrogen evolution oxygen limitation of N₂ fixation, 853

Immunoassay

barley yellow dwarf virus resistance in Aegilops, 631

In vitro culture

Rubisco and PEPC activities of in vitro strawberry plantlets, 827

Indice de récolte

effets de régies culturales sur des cultivars de blé, 279

Inheritance

inheritance of bean trichomes, 235

response of sunflower plants to physical injury, 763

Insecta

effect of wounding and jasmonates on canola seedlings, 899 tolerance to flea beetles in canola and mustard, 169

Intake

silage quality of seeding year red clover, 87

Integrated weed control Canada thistle control in summerfallow, 867

Integrated weed management crop rotation for quackgrass suppression, 193

Inter-cultivar hybrids inter-cultivar hybrids of summer turnip rape, 441

Interactions

malting quality characteristics of barley, 545

Interspecific

barley yellow dwarf virus resistance in Aegilops, 631

Interspecific hybridization apomixis in cassava, 857

Introgression

barley yellow dwarf virus resistance in Aegilops, 631 Ipomoea batatas (see Sweet potato)

Irrigation

free fatty acids in canola, 267 stand arrangements for herbage, 115

Jasmonates

effect of wounding and jasmonates on canola seedlings, 899

Johnsongrass

CO2 temperature effects on development, 43

Kernel breakage

kernel breakage vs moisture, 543

Leaching

Freeze-thaw injury is enhanced by post-thaw leaching in water, 357

Leaf area

leaf expansion and senescence of maize, 37

leaf growth of field-grown maize,

Leaf K, Mn and Cu response of apple trees, 347

Leaf N

N-use efficiency of maize hybrids, 479

Leaf rust resistance

genetics of leaf-rust resistance in three spelt wheats, 231 leaf rust resistance in wheat, 733 transfer of leaf rust resistance to

hexaploid wheat, 671 Legend canola

canola growth in response to soil salinity, 797

Legume

comparison of rock phosphate with superphosphate, 303 oxygen limitation of N₂ fixation, 853

Legume establishment

direct seeding of alfalfa, 773 Lens culinaris (see Lentil)

effect of dinitroanalines on flax and lentil, 875

Lignin

wapiti triticale for forage, 515

Lime

barley and weed response to lime, P and tillage, 421 comparison of rock phosphate with superphosphate, 303

Linum usitatissimum (see Flax)

Lupin

anti-lupin antibodies, 93

Lycopersicon esculentum L. (see Tomato)

Magnesium

dry matter and macroelements in red raspberry plantings, 565 macroelements in Willamette raspberry plant parts, 833

Maize

kernel breakage vs. moisture, 543 maize chilling resistance test, 687

Malting barley

malting quality characteristics of barley, 545

Malus domestica L. (see Apple)

Manganese

response of apple trees, 347

Mass selection

grain filling of maize strains selected for kernel weight, 455

Matricaria perforata

scentless chamomile habitats, 383

Maturity

growth of acetolactate synthase resistant canola, 745 swathing time for flax, 323 (early) Wildcap red spring wheat, 133

Medicago sativa L. (see Alfalfa)

Medicago sativa ssp. falcata (L.) Arcang. (see Alfalfa)

Metribuzin

downy brome control in wheat and rye, 185

downy brome herbicide efficacy and soil properties, 177

metribuzin tolerance in Solanum ptycanthum, 395

Microbouturage in vitro rajeunissement de l'hévéa par

microgreffage, 623 Microgreffage in vitro rajeunissement de l'hévéa par

microgreffage, 623

Micronutrient

manure application effects on barley nutrient uptake, 327

Micropropagation

garlic propagation and bulbing in vitro, 155

rajeunissement de l'hévéa par microgreffage, 623

Mill streams

bromate response of flour streams,

Milling

bromate response of flour streams, 71

(experimental) soft wheat milling, 51 Mineral

effect of harvest date on sweet potatoes grown in Ontario, 603

Mineralization

organic fertilizers on greenhouse tomato transplants, 167

Minimum tillage

barley and weed response to lime, P and tillage, 421 reduced tillage in Alberta, 713

Modelling

crop yields from phenology and water use, 429

Moisture stress

root elongation in alfalfa seedlings, 215

Monoammonium phosphate effect of zinc on cadmium concentration in the tissue of durum wheat, 549

Morphology

alfalfa root and crown morphology, 125

Mulch

rye cover crop management impact on soybean growth, 485

Multiflorous spikelet inheritance and linkage relationships in oat, 497

Mustard

zero erucic acid Ethiopian mustard, 793

Napropamide

downy brome control in wheat and rye, 185

downy brome herbicide efficacy and soil properties, 177

Net margin

oat companion for irrigated alfalfa establishment, 465

Net present value

oat companion for irrigated alfalfa establishment, 465

Nicosulfuron

postemergence control of quackgrass, 375

Nightshade (eastern black)
Metribuzin tolerance in Solanum
ptycanthum, 395

Nitrate reductase

nitrate reductase in timothy, 97 Nitrogen

comparison of rock phosphate with superphosphate, 303

dry matter and macroelements in red raspberry plantings, 565 macroelements in Willamette

raspberry plant parts, 833 N-use efficiency of maize hybrids, 479

organic fertilizers on greenhouse tomato transplants, 167

packchoy and glucosinolates, 595 silage quality of seeding year red clover, 87

Nitrogen fixation

oxygen limitation of N₂ fixation, 853

Nitrogen response

stand arrangements for herbage, 115

Nitrogen stress tolerance

N supply on development and dry matter of maize hybrids, 471

No-till

crop management for corn following established alfalfa, 255

direct seeding of alfalfa, 773 tillage and planting pattern in white bean cultivars, 801

Nodulation

soil compaction effects on nodulation, 287

Nutrient uptake

dry matter and macroelements in red raspberry plantings, 565

Oat

inheritance and linkage relationships in oat, 497 planting date effects on spring and winter cereal forage yield, 7

Oat, wild

effects of alkalies on wild oat seed, 19

Oil

safflower row spacing and seeding rates, 319

safflower seeding dates, 261

Oil content

free fatty acids in canola, 267 growth of acetolactate synthase resistant canola, 745

mustard tolerance to clopyralid,

responses of evening primrose to transplanting date, 129

Oilseed

AC McDuff flax, 815

Oilseed rape

vernalization response in spring canola, 275

Oleic acid content

wild mustard in canola, 369

Onobrychis

sainfoin-alfalfa mixtures, 785

Orchardgrass

AC splendor orchardgrass, 553 Jay orchardgrass, 339

Organic fertilizer

organic fertilizers on greenhouse tomato transplants, 167

Osmotic potential

tomato seedling establishment and growth, 589

Ozone

free fatty acids in canola, 267

Pasture

persistence of grasses under grazing, 723

Pasture improvement

wolf plants in crested wheatgrass, 767

Pattern analysis

choice of environments based on GE interaction, 311

Peach

winter freezes of fruit trees, 841

Peat

organic fertilizers on greenhouse tomato transplants, 167 Perennial-weed control

Canada thistle control in summerfallow, 867

Persistence

AC Kingston red clover, 149 evaluating alfalfa strains for pasture, 109

Pea (field)

seed rates, field pea and weeds, 387

zero-tillage forage establishment, 521

Phaseolus vulgaris L. (see Bean)

Phenological development leaf expansion and senescence of maize, 37

rate and duration of grain filling in spring wheat, 681

Phosphoenolpyruvate carboxylase

Rubisco and PEPC activities of in
vitro strawberry plantlets, 827

Phosphorus

barley and weed response to lime, P and tillage, 421 dry matter and macroelements in red raspberry plantings, 565 macroelements in Willamette raspberry plant parts, 833

Photosynthesis

N supply on development and dry matter of maize hybrids, 471 N-use efficiency of maize hybrids, 479

Phyllotreta cruciferae

effect of wounding and jasmonates on canola seedlings, 899

Physiological age evaluation of chitting, 159 Pisum sativum L. (see Pea)

Plant defence

inheritance of bean trichomes, 235 Plant density

oat companion for irrigated alfalfa establishment, 465

Plant growth

canola growth in response to soil salinity, 797

Plant water relations

wolf plants in crested wheatgrass, 767

Planting date

crop management for corn following established alfalfa, 255

free fatty acids in canola, 267 garlic in Saskatchewan, 611

Planting pattern

tillage and planting pattern in white bean cultivars, 801

Plastochron index

CO₂ temperature effects on development, 43

Polima cytoplasmic male sterility hybridity effects in CMS hybrid canola varieties, 437

Pollen viability

wheat cultivar response to copper, 25

Pollinators

alfalfa, wildflowers, and pollinators, 779

Polyclonal antibody anti-lupin antibodies, 93

Population density

effect of dinitroanalines on flax and lentil, 875

Postharvest

nitrogen effects on broccoli, 607

Potassium

dry matter and macroelements in red raspberry plantings, 565 K, Cl, and tillage effects on

barley, 1

macroelements in Willamette raspberry plant parts, 833 response of apple trees, 347

Potato

evaluation of chitting, 159

Preharvest application

glyphosate and AMPA residues in preharvest-treated wheat, 653 residues of 2,4-D in wheat, 199

Prescribed burning

blueberries all fired up, 577

Production de semence

production de semence du trèfle rouge, 807

Propiconazole

timing of propiconazole application on spring wheat, 205

Protein

wapiti triticale for forage, 515

Prunus persica (see Peach)

Psathyrostachys juncea (see
Rygreass, Russian wild)

Quackgrass

CO₂ temperature effects on development, 43 crop rotation for quackgrass suppression, 193 postemergence control of quackgrass, 375 response of quackgrass biotypes to

desiccation, 643 temperature effects on quackgrass control with glyphosate, 667

Quadrat

sampling efficiency of blueberries, 573

Rajeunissement

rajeunissement de l'hévéa par microgreffage, 623

Rape (summer turnip)

freeze-thaw injury is enhanced by post-thaw leaching in water, 357 inter-cultivar hybrids of summer turnip rape, 441

Redroot pigweed

CO₂ temperature effects on development, 43

Reduced tillage

barley and weed response to lime, P and tillage, 421

Régie

effets de régies culturales sur des cultivars de blé, 279

Regrowth

regrowth of smooth bromegrass, 531

Relative competitiveness chlorsulfuron-resistant chickweed,

Rendement

effets de régies culturales sur des cultivars de blé, 279

Replication

resource allocation in Maritime cereal cultivar trials, 501

Residual maximum likelihood resource allocation in Maritime cereal cultivar trials, 501

esidue

glyphosate and AMPA residues in preharvest-treated wheat, 653 residues of 2,4-D in wheat, 199

Resistance

AC Eatonia hard red spring wheat, 821

barley resistance to ergot, 663 effect of wounding and jasmonates on canola seedlings, 899

Rest requirement

regrowth of smooth bromegrass, 531 Ribulose-1,5-bisphosphate carboxylase

Rubisco and PEPC activities of in vitro strawberry plantlets, 827

Rimsulfuron

postemergence control of quackgrass, 375

Rock phosphate

comparison of rock phosphate with superphosphate, 303

Root and crown morphology alfalfa root and crown morphology, 125

Root carbohydrates

alfalfa root and crown morphology, 125

Root elongation

root elongation in alfalfa seedlings, 215

Rosette

Canada thistle control in summerfallow, 867

Row spacing

row spacing effects in cereals, 703 safflower row spacing and seeding rates, 319

winter wheat under cropping systems in southern Alberta, 79

Ruminant bloat

sainfoin-alfalfa mixtures, 785

Rusticité

adaptation et croissance d'arbustes ornementaux, 615

Rve

planting date effects on spring and winter cereal forage yield, 7

rye cover crop management impact on soybean growth, 485

Ryegrass (Dahurian, wild) pasture production of Russian wild ryegrass, 103

Ryegrass (Russian wild)

pasture production of Russian wild ryegrass, 103

sod seeding in Saskatchewan, 539

Safflower

safflower row spacing and seeding rates, 319

safflower seeding dates, 261

Salt tolerance

canola growth in response to soil salinity, 797

Sampling

sampling efficiency of blueberries, 573

Scentless chamomile

scentless chamomile habitats, 383

Secale cereale (see Rye)

Seed

glyphosate and AMPA residues in preharvest-treated wheat, 653

Seed bank

seedling emergence after maternal bentazon application, 863

Seed coat

effects of alkalies on wild oat seed, 19

Seed germination

tomato seedling establishment and growth, 589

Seed production

alfalfa, wildflowers, and pollinators, 779

Seed quality

desiccants to reduce frost damage in flax, 121

frost damage and flax quality, 331 Seed treatment

freezing tolerance of winter wheat,

Seed weight

growth of acetolactate synthase resistant canola, 745

Seed yield

comparison of selection methods in common bean, 461

inter-cultivar hybrids of summer turnip rape, 441

mustard tolerance to clopyralid, 635

Seeding dates

safflower seeding dates, 261

Seeding depth

effect of dinitroanalines on flax and lentil, 875 flax germination and emergence, 247

Seeding pattern

sainfoin-alfalfa mixtures, 785

Seeding rate

effect of dinitroanalines on flax and lentil, 875

row spacing effects in cereals, 703 safflower row spacing and seeding rates, 319

seed rates, field pea and weeds, 387

Seedling

root elongation in alfalfa seedlings, 215

Seedling emergence

seedling emergence after maternal bentazon application, 863

Seedling growth

effects of alkalies on wild oat seed, 19

Selection

test weight in wheat, 675

Selection methods

comparison of selection methods in common bean, 461

Selection response

resource allocation in Maritime cereal cultivar trials, 501

Sensory attributes

effect of edible coatings on storage quality of apples, 847

Septoria leaf blotch

timing of propiconazole application on spring wheat, 205

Series of experiments

choice of environments based on GE interaction, 311

Shattering

greenhouse pod dehiscence in soybean, 699

Sicklepod velvetleaf

CO₂ temperature effects on development, 43

Silage

silage quality of seeding year red clover, 87

wapiti triticale for forage, 515

Silage corn

crop management for corn following established alfalfa, 255

Skin discoloration

effect of edible coatings on storage quality of apples, 847

Snow mold

AC Nordica alfalfa, 145

Sod renovation

direct seeding of alfalfa, 773

Sod-seeding

sod-seeding alfalfa in Saskatchewan, 293

sod-seeding in Saskatchewan, 539

Sodium

macroelements in Willamette raspberry plant parts, 833

Soft wheat quality screening soft wheat milling, 51

Soil compaction

soil compaction effects on nodulation, 287

Soil erosion

winter wheat under cropping systems in southern Alberta, 79

Soil water extraction

crop response to zero-tillage, 411

Solanum ptycanthum

metribuzin tolerance in solanum ptycanthum, 395

Solanum tuberosum (see Potato)

Solid stem

AC Eatonia hard red spring wheat, 821

Sorghum

selecting sorghum cultivars for the semi-arid tropics, 759

Soybean

greenhouse pod dehiscence in soybean, 699

soybean backcross and bi-parental

populations, 15 OAC Eclipse soybean, 141

OAC Frontier soybean, 143

OAC Telbet soubser 139

OAC Talbot soybean, 137 rye cover crop management impact on soybean growth, 485

Stability parameters

selecting sorghum cultivars for the semi-arid tropics, 759

Stand arrangement

stand arrangements for herbage,

Stand density

quackgrass control with sethoxydim, 647

Starch

effect of harvest date on sweet potatoes grown in Ontario, 603

teer
pasture production of Russian wild

ryegrass, 103 Stem densities

sampling efficiency of blueberries, 573

Stiffness

doubly-attached trichomes on stamens, 335

Straw management zero-tillage forage establishment, 521

Straw removal

residue management effects on timothy, 507

Structural strength

doubly-attached trichomes on stamens, 335

Subirrigation

poinsettia response to nitrate, substrate pH and etridiazole, 151

Sugar

effect of harvest date on sweet potatoes grown in Ontario, 603

Sulfonylurea herbicides

chlorsulfuron-resistant chickweed, 693

Sunflower

response of sunflower plants to physical injury, 763

Superphosphate

comparison of rock phosphate with superphosphate, 303

Swathing time

swathing time for flax, 323

Sweet potato

effect of harvest date on sweet potatoes grown in Ontario, 603

Tan spot

timing of propiconazole application on spring wheat, 205

Teleconnections

winter freezes of fruit trees, 841

Temperature

leaf expansion and senescence of maize, 37

leaf growth of field-grown maize, 31

temperature effects on quackgrass control with glyphosate, 667

Terrazole

poinsettia response to nitrate, substrate pH and etridiazole, 151

Test weight

AC Copia spring triticale, 811 safflower row spacing and seeding rates, 319

Tillage

barley and weed response to lime, P and tillage, 421

crop rotation for quackgrass suppression, 193

K, Cl, and tillage effects on barley, 1 reduced tillage in Alberta, 713 winter wheat under cropping systems in Alberta, 79

Tillering

planting date effects on spring and winter cereal forage yield, 7 regrowth of smooth bromegrass, 531

Timothy

nitrate reductase in timothy, 97

Tissue culture

garlic propagation and bulbing in vitro, 155

Titratable acidity

effect of edible coatings on storage quality of apples, 847

Tomato

organic fertilizers on greenhouse tomato transplants, 167 tomato seedling establishment and

growth, 589

Transplanting date responses of evening primrose to transplanting date, 129

Trèfle rouge

production de semence du trèfle rouge, 807

Trichomes

inheritance of bean trichomes, 235 Trifolium pratense L. (see Clover) 2,3,5-triphenyltetrazolium chloride

Freeze-thaw injury is enhanced by post-thaw leaching in water, 357

Triticale (spring)

AC Copia spring triticale, 811
Triticum aestivum L. (see Wheat)
Triticum turgidum L. (see Wheat,
durum)

Γruban

poinsettia response to nitrate, substrate pH and etridiazole, 151

Turnip mosaic virus packchoy and glucosinolates, 595

Vaccinium angustifolium (see Blueberry)

Vaccinium myrtilloides (see Blueberry)

Vallisneria americana Michx., 883 Variance components

resource allocation in Maritime cereal cultivar trials, 501

Vegetable quality

nitrogen effects on broccoli, 607

Vegetative growth blueberries all fired up, 577

Vernalization vernalization in spring wheat, 753

vernalization response in spring canola, 275

Vigna radiata (see Bean (mung)) Vigour

response of apple trees, 347

Vrn genes

vernalization in spring wheat, 753

Water stress

leaf growth of field-grown maize, 31

Weed

barley and weed response to lime P and tillage, 421

Weed biology

Vallisneria americana Michx., 883

Weed competition

seed rates, field pea and weeds, 387

Weed control

response of quackgrass biotypes to desiccation, 643

Wheat

barley yellow dwarf virus resistance in *Aegilops*, 631 choice of environments based on

GE interaction, 311

crop yields from phenology and water use, 429

genetics of leaf-rust resistance in three spelt wheats, 231

glyphosate and AMPA residues in preharvest-treated wheat, 653

guard cell length and cold hardiness in wheat, 59

leaf rust resistance in wheat, 733 preharvest applications of

glyphosate on wheat, 221

residues of 2,4-D in wheat, 199 transfer of leaf rust resistance to hexaploid wheat, 671

wheat cultivar response to copper, 25 zero-tillage forage establishment,

521 Wheat (durum)

bulk F₂ and F₄ yield tests in durum wheat, 241

effect of zinc on cadmium concentration in the tissue of durum wheat, 549

transfer of leaf rust resistance to hexaploid wheat, 671

Wheat (spring)

AC Eatonia hard red spring wheat, 821

Bluesky red spring wheat, 135 bromate response of flour streams,

rate and duration of grain filling in spring wheat, 681 vernalization in spring wheat, 753

Wildcat red spring wheat, 133 Wheat (winter)

date and rate of seeding of winter cereals, 447

freezing tolerance of winter wheat,

guard cell length and cold hardiness in wheat, 59

planting date effects on spring and winter cereal forage yield, 7

winter wheat under cropping systems in southern Alberta, 79

Wheatgrass persistence of grasses under

grazing, 723 sod-seeding alfalfa in Saskatchewan, 293

wolf plants in crested wheatgrass, 767

Wheatgrass (slender)

pasture production of Russian wild ryegrass, 103

White bean

tillage and planting pattern in white bean cultivars, 801

Wild fruits

northern Ontario wild fruits, composition and energy values, 581

Wild species

apomixis in cassava, 857

Winter crown rot AC Nordica alfalfa, 145 Winter hardiness AC Nordica alfalfa, 145

Winter rve

planting date effects on spring and winter cereal forage yield, 7

Winter survival

date and rate of seeding of winter cereals, 447

evaluation of cultural practices for fall-planted garlic, 353 garlic in Saskatchewan, 611

Winter triticale

date and rate of seeding of winter cereals, 447

planting date effects on spring and winter cereal forage yield, 7

Wounding

effect of wounding and jasmonates on canola seedlings, 899

X Triticosecale Wittmack (see Triticale)

Xanthium strumarium

seedling emergence after maternal bentazon application, 863

Yield

response of apple trees, 347 long term herbicide and fertilizer on blueberry, 341

rate and duration of grain filling in spring wheat, 681

effect of dinitroanalines on flax and lentil, 875

crop yields from phenology and water use, 429

safflower row spacing and seeding rates, 319

variation and adaptation of Canadian barleys, 737

effect of harvest date on sweet potatoes grown in Ontario, 603 growth of acetolactate synthase

resistant canola, 745 evaluation of chitting, 159

safflower seeding dates, 261

date and rate of seeding of winter cereals, 447

blueberries all fired up, 577 Yield compensation

row spacing effects in cereals, 703

Yield components grain filling of maize strains selected for kernel weight, 455

residue management effects on timothy, 507

row spacing effects in cereals, 703 Yield prediction

bulk F2 and F3 yield tests in durum wheat, 241

Zea mays L. (see Corn) Zero erucic acid zero erucic acid Ethiopian mustard, 793

Zero tillage

direct seeding of alfalfa, 773 reduced tillage in Alberta, 713

effect of zinc on cadmium concentration in the tissue of durum wheat, 549

